

Section 8.2 Focus Exercise Answers

1. a) $m = -2$; $b = 1$

b) $m = \frac{1}{4}$; $b = -3$

c) $m = -\frac{3}{8}$; $b = 0$

d) $m = -1$; $b = \frac{1}{2}$

e) $m = 1$; $b = 0$

f) $m = 6$; $b = -3.8$

g) $m = \frac{5}{2}$; $b = -\frac{2}{3}$

h) $m = 1$; $b = 4$

2. a) $(0, 6)$

b) $(0, -4)$

c) $(0, -\frac{1}{3})$

d) $(0, 2.9)$

e) $(0, 0)$

f) $(0, -0.4)$

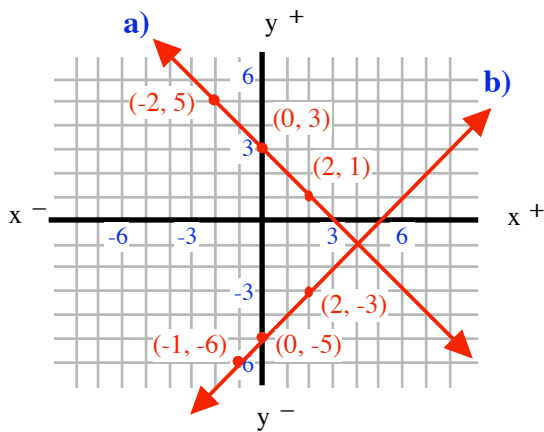
3. The lines shown are correct, but you may have gotten different points on the lines.

a) Three points: $(0, 3)$, $(-2, 5)$, and $(2, 1)$

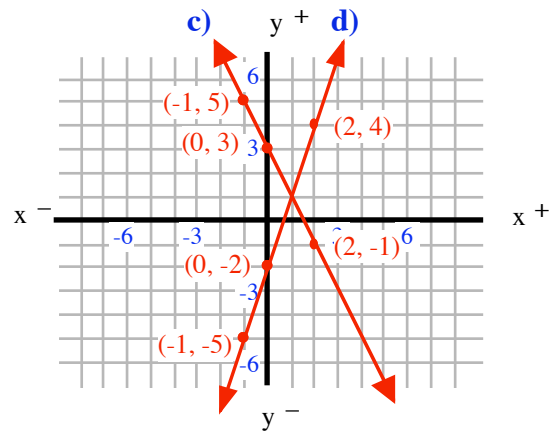
c) Three points: $(0, 3)$, $(-1, 5)$, and $(2, -1)$

b) Three points: $(0, -5)$, $(-1, -6)$, and $(2, -3)$

d) Three points: $(0, -2)$, $(-1, -5)$, and $(2, 4)$



(a) and (b) Point of intersection **$(4, -1)$**



(c) and (d) Point of intersection **$(1, 1)$**

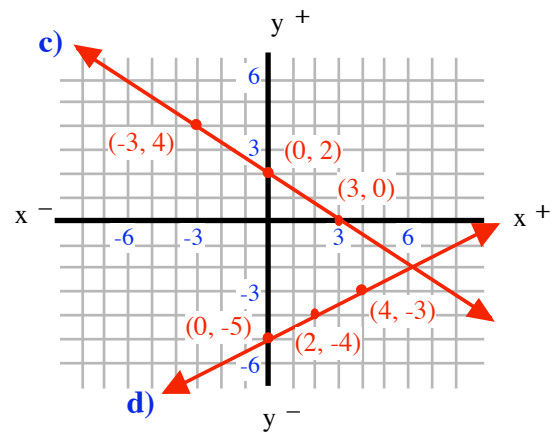
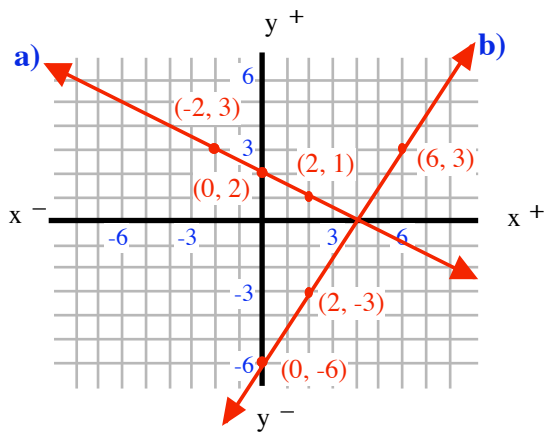
4. The lines shown are correct, but you may have gotten different points on the lines.

a) Three points: $(0, 2)$, $(2, 1)$, and $(-2, 3)$

c) Three points: $(0, 2)$, $(3, 0)$, and $(-3, 4)$

b) Three points: $(0, -6)$, $(2, -3)$, and $(6, 3)$

d) Three points: $(0, -5)$, $(2, -4)$, and $(4, -3)$



(a) and (b) Point of intersection **$(4, 0)$**

(c) and (d) Point of intersection **$(6, -2)$**